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L1	1	"6905854".pn.	USPAT	OR	OFF	2005/09/18 16:18
L2	1	"6699699".pn.	USPAT	OR	OFF	2005/09/18 17:00
L3	3	streptomyces near10 (penicillin near2 expandase)	USPAT	OR	OFF	2005/09/18 17:03
L4	14	streptomyces near10 (deacetoxycephalosporin near2 (synthase or synthetase))	USPAT	OR	OFF	2005/09/18 17:02
L5	15	L3 or L4	USPAT	OR	OFF	2005/09/18 17:02
L6	12	I5 and (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:03
L7	8173	(penicillin near2 expandase) or (deacetoxycephalosporin near2 synthase or synthetase)	USPAT	OR	OFF	2005/09/18 17:04
L8	245	I7 near8 (variant or mutant or mutated or mutation or mutating)	USPAT	OR	OFF	2005/09/18 17:05
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L1 114 STREPTOMYCES (8A) (DEACETOXYCEPHALOSPORIN (2A)
(SYNTHASE OR
SYNTHETASE))

=> s streptomyces (8A) (penicillin (2A) expandase)

L2 9 STREPTOMYCES (8A) (PENICILLIN (2A) EXPANDASE)

=> s l1 or l2 (10A) (variant or mutant or mutated or mutation or mutating)

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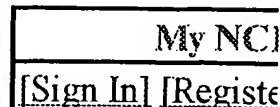
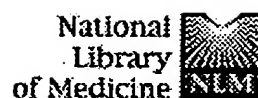
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Controlling the substrate selectivity of deacetoxycephalosporin/deacetylcephalosporin C synthase. J Biol Chem. 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20. PMID: 14734549 [PubMed - indexed for MEDLINE]

☐ 2: Chin HS, Goo KS, Sim TS.

Related Articles, Links



A complete library of amino acid alterations at N304 in Streptomyces clavuligerus deacetoxycephalosporin C synthase elucidates the basis for enhanced penicillin analogue conversion. Appl Environ Microbiol. 2004 Jan;70(1):607-9. PMID: 14711695 [PubMed - indexed for MEDLINE]

☐ 3: Chin HS, Sim TS.

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C-terminus modification of Streptomyces clavuligerus deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity. Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61. PMID: 12083766 [PubMed - indexed for MEDLINE]

☒ 4: Chin HS, Sim J, Sim TS.

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Mutation of N304 to leucine in Streptomyces clavuligerus deacetoxycephalosporin C synthase creates an enzyme with increased penicillin analogue conversion. Biochem Biophys Res Commun. 2001 Sep 21;287(2):507-13. PMID: 11554757 [PubMed - indexed for MEDLINE]

☒ 5: Lee HJ, Lloyd MD, Harlos K, Clifton IJ, Baldwin JE, Schofield CJ.

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Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS). J Mol Biol. 2001 May 18;308(5):937-48.

PMID: 11352583 [PubMed - indexed for MEDLINE]

☒ 6: [Sim J, Sim TS](#)

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Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in Streptomyces clavuligerus deacetoxycephalosporin C synthase for catalysis.

Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.

PMID: 10830499 [PubMed - indexed for MEDLINE]

☒ 7: [Lee HJ, Lloyd MD, Harlos K, Schofield CJ](#)

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The effect of cysteine mutations on recombinant deacetoxycephalosporin C synthase from S. clavuligerus.

Biochem Biophys Res Commun. 2000 Jan 7;267(1):445-8.

PMID: 10623639 [PubMed - indexed for MEDLINE]

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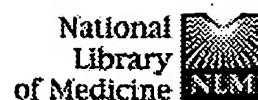
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☐ 1: Oster LM, van Scheltinga AC, Valegard K, Hose AM, Dubus A, Hajdu J, Andersson I. [Related Articles, Links](#)

Conformational flexibility of the C terminus with implications for substrate binding and catalysis revealed in a new crystal form of deacetoxycephalosporin C synthase.

J Mol Biol. 2004 Oct 8;343(1):157-71.

PMID: 15381427 [PubMed - indexed for MEDLINE]

☐ 2: Lloyd MD, Lipscomb SJ, Hewitson KS, Hensgens CM, Baldwin JE, Schofield CJ. [Related Articles, Links](#)

Controlling the substrate selectivity of deacetoxycephalosporin/deacetylcephalosporin C synthase.

J Biol Chem. 2004 Apr 9;279(15):15420-6. Epub 2004 Jan 20.

PMID: 14734549 [PubMed - indexed for MEDLINE]

☐ 3: Lee HJ, Dai YF, Shiau CY, Schofield CJ, Lloyd MD. [Related Articles, Links](#)

The kinetic properties of various R258 mutants of deacetoxycephalosporin C synthase.

Eur J Biochem. 2003 Mar;270(6):1301-7.

PMID: 12631288 [PubMed - indexed for MEDLINE]






☐ 4: Chin HS, Sim TS. [Related Articles, Links](#)

C-terminus modification of Streptomyces clavuligerus deacetoxycephalosporin C synthase improves catalysis with an expanded substrate specificity.

Biochem Biophys Res Commun. 2002 Jul 5;295(1):55-61.

PMID: 12083766 [PubMed - indexed for MEDLINE]

☐ 5: Lipscomb SJ, Lee HJ, Mukherji M, Baldwin JE, Schofield CJ, Lloyd MD. [Related Articles, Links](#)

-  The role of arginine residues in substrate binding and catalysis by deacetoxycephalosporin C synthase.
Eur J Biochem. 2002 Jun;269(11):2735-9.
PMID: 12047382 [PubMed - indexed for MEDLINE]
- ☐ 6: [Terwisscha van Scheltinga AC](#), [Valegard K](#), [Ramaswamy S](#), [Hajdu J](#), [Andersson I](#). [Related Articles](#), [Links](#)
[Multiple isomorphous replacement on merohedral twins: structure determination of deacetoxycephalosporin C synthase.](#)
Acta Crystallogr D Biol Crystallogr. 2001 Dec;57(Pt 12):1776-85.
Epub 2001 Nov 21.
PMID: 11717489 [PubMed - indexed for MEDLINE]
- ☐ 7: [Lee HJ](#), [Lloyd MD](#), [Harlos K](#), [Clifton IJ](#), [Baldwin JE](#), [Schofield CJ](#). [Related Articles](#), [Links](#)
 Kinetic and crystallographic studies on deacetoxycephalosporin C synthase (DAOCS).
J Mol Biol. 2001 May 18;308(5):937-48.
PMID: 11352583 [PubMed - indexed for MEDLINE]
- ☐ 8: [Lee HJ](#), [Lloyd MD](#), [Clifton IJ](#), [Harlos K](#), [Dubus A](#), [Baldwin JE](#), [Frere JM](#), [Schofield CJ](#). [Related Articles](#), [Links](#)
 Alteration of the co-substrate selectivity of deacetoxycephalosporin C synthase. The role of arginine 258.
J Biol Chem. 2001 May 25;276(21):18290-5. Epub 2001 Feb 21.
PMID: 11279000 [PubMed - indexed for MEDLINE]
- ☐ 9: [Sim J](#), [Sim TS](#). [Related Articles](#), [Links](#)
 Mutational evidence supporting the involvement of tripartite residues His183, Asp185, and His243 in Streptomyces clavuligerus deacetoxycephalosporin C synthase for catalysis.
Biosci Biotechnol Biochem. 2000 Apr;64(4):828-32.
PMID: 10830499 [PubMed - indexed for MEDLINE]
- ☐ 10: [Lloyd MD](#), [Lee HJ](#), [Harlos K](#), [Zhang ZH](#), [Baldwin JE](#), [Schofield CJ](#), [Charnock JM](#), [Garner CD](#), [Hara T](#), [Terwisscha van Scheltinga AC](#), [Valegard K](#), [Viklund JA](#), [Hajdu J](#), [Andersson I](#), [Danielsson A](#), [Bhikhabhai R](#). [Related Articles](#), [Links](#)
 Studies on the active site of deacetoxycephalosporin C synthase.
J Mol Biol. 1999 Apr 16;287(5):943-60.
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- ☐ **11:** [Valegard K, van Scheltinga AC, Lloyd MD, Hara T, Ramaswamy S, Perrakis A, Thompson A, Lee HJ, Baldwin JE, Schofield CJ, Hajdu J, Andersson I.](#) Related Articles, Links



Structure of a cephalosporin synthase.

Nature. 1998 Aug 20;394(6695):805-9.

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- ☐ **12:** [Alvi KA, Reeves CD, Peterson J, Lein J.](#) Related Articles, Links



Isolation and identification of a new cephem compound from *Penicillium chrysogenum* strains expressing deacetoxycephalosporin C synthase activity.

J Antibiot (Tokyo). 1995 Apr;48(4):338-40. No abstract available.

PMID: 7775275 [PubMed - indexed for MEDLINE]

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